

FIGURE

TOTETT TRIBBERY MARK AREA

DETER MINATON SYSTEM ZOOM & DISTANCE ORIENTATION SENSOR Y LANDMARK USER LOCATION SENSOR SENSOR DATABASE FIGURE WTERPRETER UPDATING MODULE 230 70 CONTEXT STORAGIE 92

START 40
RECEIVE LOCATION & ORIENTATION 4
V
DETERMINE A VIEWING DIRECTION 42 BASED ON THE LOCATION & ORIENTATION INFORMATION
1
GENERATE A VIEWING CONE ALONG 73 THE VIEWING DIRECTION BASED ON ZOOM INFORMATION
ZOOFI TOTAL
PASED ON 44
SEGMENT THE CONE BASED ON 44 FOCUS INFORMATION TO DEFINE THE GEOGRAPHICAL AREA FROM
WHICH THE IMAGE IS TAKEN
SEARCH THE LANDMARK DATABASE
FOR ALL LANDMARKS LOCATED INSIDE
THE DEFINED GLEOGRAPHICAL AREA
46
SELECT LARGEST & CLOSEST LANDMARK TO THE VIEWER AND CONTEXTUAL INFORMATION OF THAT LANDMARK
<u> </u>
TIGUIRE 3A

FLAUKE JA

<b>(4)</b>
V
COMPUTE DISTANCE FROM IMAGE
SENSOR TO THE SELECTED LANDMAK 47
COMPUTE TRAVEL TIME BASED ON48
COMPUTE TRAVEL TIME BASED ON 48 DISTANCE AND RECORDED WALKING
SPEED OF THE VIEWER
V
CAUSE UPDATING MODULE TO OBTAIN 49
& PROVIDE REAL-TIME UPDATES OF
THE CONTEXTUAL INFORMATION
SEND THE UPDATED CONTEXTUAL INFORMATION 50
TO RENDERING MODULE
EXPAND THE SEGMENTED CONE IN ALL
DIRECTIONS AND SEARCH THE LANDMARK
DATABASE FOR ALL LANDMARKS WITHIN
THE EXPANDED ARER OUTSIDE THE SEGMENTED CONE
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
OBTAIN & SEND TO RENDERING MODULE 52
CONTEXTUAL INFORMATION OF ANY LARGEST
LANDMARK WITH/N THE EXPANDED AREA MD CLOSEST TO AN EDGE OF THE SEGMENTED CONE
ELOSEST TO AN EDGE OF THE SEGMENTED CONE
END 53
FIGURE 3B

UPDATE REQUEST MODULE 091 TO FROM (> LOM MUNICATION) (

FIGURE 4

FROM IMAGE SENBOR 150 140 130 120 GEOGRAPHICAL NFORMATION EXTRACTOR STORAGE LANDMARK DATABASE UPDATING MODULE 091 MTERPRETER LONTEXT

TIGURE S

in Calabi

6

TETETT TRIBBAND MARK AREA
DETER MINATON SYSTEM 235 ZOOM & DISTANCE X 224 525 122 IMAGE FEATURE EXTRACTOR Y TWD MAKK ORIENTA TION USER INTERFACE LOCATION SENSOR DATABASE SENSOR SENSOR FIGURE 6 z 36 WTERPRETER UPDATING MODULE 530 CONTEXT 220 STORAGE 726 7007

100